

What is claimed is:

1. An image input/output apparatus having input means for inputting image data of original images, and
5 output means for outputting image data, said apparatus being connected to at least one other image input/output apparatus via a communication medium, comprising:

transmission means for transmitting the image data
10 input by said input means and image accompanying information relating to the input image data to said at least one other image input/output apparatus;

receiving means for receiving image data and image accompanying information relating thereto from said at
15 least one other image input/output apparatus; and

output control means for carrying out control so as to output images using said output means based on the image data and the image accompanying information received by said receiving means.

20 2. An image input/output apparatus as claimed in claim 1, wherein the image accompanying information is indicative of whether the image data corresponding to the image accompanying information is related to a front page of an original or to a back page of the
25 original, and

wherein said output control means adjusts an output position of an image on a recording medium based

on the image accompanying information.

3. An image input/output apparatus as claimed in
claim 2, wherein said output means is a printer, and
said output control means adjusts a printing position
5 of an image on a printing sheet in said printer, based
on the image accompanying information.

4. An image input/output apparatus as claimed in
claim 1, wherein the image accompanying information is
indicative of a type of original, and said output
10 control means adjusts output quality of an image on a
recording medium based on the image accompanying
information.

5. An image input/output apparatus as claimed in
claim 4, wherein said output means is a printer, and
15 said output control means adjusts image quality of an
image to be printed by said printer, based on the image
accompanying information.

6. An image input/output apparatus as claimed in
claim 1, wherein the image accompanying information is
20 indicative of sizes of margins contained in the image
data corresponding to the image accompanying
information, and said output control means adjusts an
output position of an image on a recording medium based
on the image accompanying information.

25 7. An image input/output apparatus as claimed in
claim 6, wherein said output means is a printer, and
said output control means adjusts a printing position

of an image on a printing sheet in said printer, based on the image accompanying information.

8. An image input/output apparatus as claimed in claim 1, wherein the image accompanying information is
5 indicative of an image size before fine adjustment of image size is carried out, and said output control means carries out at least selection of a recording medium based on the image accompanying information.

9. An image input/output apparatus as claimed in
10 claim 8, wherein said output means is a printer having a plurality of sheet feeding stages, and said output control means carries out selection of said sheet feeding stages, selection of a printing sheet and image rotation control based on the image accompanying
15 information.

10. An image input/output apparatus as claimed in claim 1, wherein said input means is a scanner.

11. An image input/output apparatus as claimed in claim 1, wherein said transmission means transmits the
20 image accompanying information using a free area in a header of a TIFF file.

12. An image input/output apparatus connected to at least one printing apparatus via a communication medium, comprising:
25 input means for inputting image data of original images; and
 transmission means for transmitting image data to

said at least one printing apparatus;

wherein said transmission means transmits the
image data of the original images and image
accompanying information relating to the image data of
5 the original images to said at least one printing
apparatus.

13. An image input/output apparatus as claimed in
claim 12, wherein the image accompanying information is
indicative of whether the image data corresponding to
10 the image accompanying information is related to a
front page of an original or to a back page of the
original.

14. An image input/output apparatus as claimed in
claim 12, wherein the image accompanying information is
15 indicative of a type of original.

15. An image input/output apparatus as claimed in
claim 12, wherein the image accompanying information is
indicative of sizes of margins contained in the image
data corresponding to the image accompanying
20 information.

16. An image input/output apparatus as claimed in
claim 12, wherein the image accompanying information is
indicative of an image size before fine adjustment of
image size is carried out.

25 17. An image input/output apparatus as claimed in
claim 12, wherein said transmission means transmits the
image accompanying information using a free area in a

header of a TIFF file.

18. An image input/output apparatus connected via a communication medium to at least one image reading apparatus that input image data of original images,
5 comprising:

receiving means for receiving the image data of the original images from said at least one image reading apparatus;

printing means for printing image data; and
10 printing control means for controlling printing of the image data received by said receiving means, using said printing means;

wherein said receiving means receives image accompanying information relating to the image data of the original images, and said printing control means controls the printing using said printing means based on the image data and the image accompanying information received by said receiving means.

19. An image input/output apparatus as claimed in
20 claim 18, wherein the image accompanying information is indicative of whether the image data corresponding to the image accompanying information is related to a front page of an original or to a back page of the original, and

25 wherein said printing control means adjusts a printing position of an image on a printing sheet based on the image accompanying information.

20. An image input/output apparatus as claimed in claim 18, wherein the image accompanying information is indicative of a type of original, and said printing control means adjusts image quality of an image to be
5 printed based on the image accompanying information.

21. An image input/output apparatus as claimed in claim 18, wherein the image accompanying information is indicative of sizes of margins contained in the image data corresponding to the image accompanying
10 information, and said printing control means adjusts a printing position of an image on a printing sheet based on the image accompanying information.

22. An image input/output apparatus as claimed in claim 18, wherein the image accompanying information is
15 indicative of an image size before fine adjustment of image size is carried out, and said printing control means carries out sheet feeding stage selection, printing sheet selection and image rotation control based on the image accompanying information.

20 23. An image input/output apparatus as claimed in claim 18, wherein said receiving means receives image data of original images that has been converted into a TIFF file, and the image accompanying information is attached to a free area in a header of the TIFF file.

25 24. An image input/output apparatus connected to at least one image output apparatus via a communication medium, comprising:

converting means for converting input image data into a TIFF file; and

transmission means for transmitting the TIFF file converted by said converting means to said at least one
5 image output apparatus;

wherein said transmission means attaches to a free area in a header of the TIFF file, control information for said at least one image output apparatus to carry out image output of the image data, and transmits the
10 control information.

25. An image input/output apparatus as claimed in claim 24, wherein said at least one image output apparatus is a printing apparatus, and said transmission means attaches to the free area in the
15 header of the TIFF file, printing control information for printing the image data using said printing apparatus, and transmits the printing control information.

26. An image input/output apparatus as claimed in claim 25, wherein the printing control information contains at least one of information for adjusting a printing position of an image, information for adjusting printing quality of an image, and information for selecting a recording medium upon which to print an
25 image.

27. An image input/output apparatus having output means for outputting image data, and being connected to

at least one other image input/output apparatus via a communication medium, comprising:

management means for managing cassette information on sheet cassettes provided in said output means; and

5 first selection means for selecting one of the sheet cassettes for outputting image data by said output means based on the cassette information managed by said management means;

wherein, when image data received from said at
10 least one other image input/output apparatus is to be outputted by said output means, said first selection means selects one of said sheet cassettes based on the cassette information.

28. An image input/output apparatus as claimed in
15 claim 27, further comprising second selection means for selecting one of said sheet cassettes in accordance with operation input of an operator, and

wherein, if image output using one of the sheet
20 cassettes selected by said first selection means is impossible, image output using another one of the sheet cassettes selected by said second selection means is commenced.

29. An image input/output apparatus as claimed in
claim 28, comprising receiving means for receiving
25 image data from said at least one image input/output apparatus, and wherein said receiving means continues reception of image data from said at least one image

input/output apparatus until selection is carried out by said second selection means.

30. An image input/output apparatus as claimed in claim 29, wherein the reception of the image data is
5 carried out page by page.

31. An image input/output apparatus as claimed in claim 27, further comprising warning means for displaying a warning if image output using one of the sheet cassettes selected by said first selection means
10 is impossible.

32. An image input/output apparatus as claimed in claim 27, wherein the image size of the received image data is determined based on image accompanying information sent together with the received image data.

15 33. An image input/output apparatus as claimed in claim 27, comprising input means for inputting original images.

34. A method of controlling an image input/output apparatus having an input section that inputs image
20 data of original images, and an output section that outputs image data, and being connected to at least one other image input/output apparatus via a communication medium, comprising:

25 a transmission step of transmitting the image data input by said input section and image accompanying information relating to the input image data to said at least one other image input/output apparatus;

a receiving step of receiving image data and image accompanying information relating thereto from said at least one other image input/output apparatus; and

an output control step of controlling so as to
5 output images using said output section based on the image data and the image accompanying information received through said receiving step.

35. A method as claimed in claim 34, wherein the image accompanying information is indicative of whether
10 the image data corresponding to the image accompanying information is related to a front page of an original or to a back page of the original, and said output control step comprises adjusting an output position of an image on a recording medium based on the image
15 accompanying information.

36. A method as claimed in claim 35, wherein said output section is a printer, and said output control step comprises adjusting a printing position of an image on a printing sheet in said printer, based on the
20 image accompanying information.

37. A method as claimed in claim 34, wherein the image accompanying information is indicative of a type of original, and said output control step comprises adjusting output quality of an image on a recording
25 medium based on the image accompanying information.

38. A method as claimed in claim 37, wherein said output section is a printer, and said output control

step comprises adjusting image quality of an image to be printed by said printer, based on the image accompanying information

39. A method as claimed in claim 34, wherein the
5 image accompanying information is indicative of sizes of margins contained in the image data corresponding to the image accompanying information, and said output control step comprises adjusting an output position of an image on a recording medium based on the image
10 accompanying information.

40. A method as claimed in claim 39, wherein said output section is a printer, and said output control step comprises adjusting a printing position of an image on a printing sheet, based on the image
15 accompanying information.

41. A method as claimed in claim 34, wherein the image accompanying information is indicative of an image size before fine adjustment of image size is carried out, and said output control step comprises
20 carrying out at least selection of a recording medium based on the image accompanying information

42. A method as claimed in claim 41, wherein said output section is a printer having a plurality of sheet feeding stages, and said output control step comprises
25 carrying out selection of said sheet feeding stages, selection of a printing sheet and image rotation control based on the image accompanying information.

43. A method as claimed in claim 34, wherein said input section is a scanner.

44. A method as claimed in claim 34, wherein said transmission step comprises transmitting the image

5 accompanying information using a free area in a header of a TIFF file.

45. A method of controlling an image input/output apparatus having an input section that inputs original images, and being connected to at least one printing

10 apparatus via a communication medium, comprising:

an input step of inputting image data of the original images using said input section; and

a transmission step of transmitting image data to said at least one printing apparatus;

15 wherein in said transmission step, the image data of the original images and image accompanying information relating to the image data of the original images is transmitted to said at least one printing apparatus.

20 46. A method as claimed in claim 45, wherein the image accompanying information is indicative of whether the image data corresponding to the image accompanying information is related to a front page of an original or to a back page of the original

25 47. A method as claimed in claim 45, wherein the image accompanying information is indicative of a type of original

48. A method as claimed in claim 45, wherein the image accompanying information is indicative of sizes of margins contained in the image data corresponding to the image accompanying information.

5 49. A method as claimed in claim 45, wherein the image accompanying information is indicative of an image size before fine adjustment of image size is carried out.

10 50. A method as claimed in claim 45, wherein said transmission step comprises transmitting the image accompanying information using a free area in a header of a TIFF file.

15 51. A method of controlling an image input/output apparatus having a printing section that prints image data, and being connected via a communication medium to at least one image reading apparatus that input image data of original images, comprising:

20 a receiving step of receiving the image data of the original images from said at least one image reading apparatus;

 a printing step of printing image data using said printing section; and

25 a printing control step of controlling printing of image data received through said receiving step, using said printing step;

 wherein in said receiving step, image accompanying information relating to the image data of the original

images is received, and in said printing control step, the printing using said printing section is controlled based on the image data and the image accompanying information received through said receiving step.

5 52. A method as claimed in claim 51, wherein the image accompanying information is indicative of whether the image data corresponding to the image accompanying information is related to a front page of an original or to a back page of the original, and said printing
10 control step comprises adjusting a printing position of an image on a printing sheet based on the image accompanying information.

15 53. A method as claimed in claim 51, wherein the image accompanying information is indicative of a type of original, and said printing control step comprises adjusting printing quality of an image on a recording medium based on the image accompanying information.

20 54. A method as claimed in claim 51, wherein the image accompanying information is indicative of sizes of margins contained in the image data corresponding to the image accompanying information, and said printing control step comprises adjusting a printing position of an image on a printing sheet based on the image accompanying information.

25 55. A method as claimed in claim 51, wherein wherein the image accompanying information is indicative of an image size before fine adjustment of

image size is carried out, and said printing control step comprises carrying out sheet feeding stage selection, printing sheet selection and image rotation control based on the image accompanying information.

5 56. A method as claimed in claim 51, wherein said receiving step comprises receiving image data of an original image that has been converted into a TIFF file, and the image accompanying information is attached to a free area in a header of the TIFF file.

10 57. A method of controlling an image input/output apparatus connected to at least one image output apparatus via a communication medium, comprising:

 a converting step of converting input image data into a TIFF file; and

15 a transmission step of transmitting the TIFF file converted through said converting step to said at least one image output apparatus;

 wherein in said transmission step, control information for said at least one image output

20 apparatus to carry out image output of said image data is attached to a free area in a header of a TIFF file and transmitted.

25 58. A method as claimed in claim 57, wherein said at least one image output apparatus is a printing apparatus, and said transmission step comprises attaching to the free area in the header of the TIFF file, printing control information for printing the

image data using said printing apparatus, and transmitting the printing control information.

59. A method as claimed in claim 58, wherein the printing control information contains at least one of
5 information for adjusting a printing position of an image, information for adjusting printing quality of an image, and information for selecting a recording medium upon which to print an image.

60. A method of controlling an image input/output apparatus having an output section that outputs image data, and being connected to at least one image input/output apparatus via a communication medium, comprising:

15 a management step of managing cassette information on sheet cassettes provided in said output section; and
a first selection step of selecting one of the sheet cassettes for outputting image data by said output section based on the cassette information managed through said management step;

20 wherein, when image data received from said at least one image input/output apparatus is to be outputted by said output section, in said first selection step, one of said sheet cassettes is selected based on the cassette information.

25 61. A method as claimed in claim 60, further comprising a second selection step of selecting one of said sheet cassettes in accordance with operation input

of an operator;

wherein, if image output using one of the sheet cassettes selected through said first selection step is impossible, image output using another one of the sheet cassettes selected through said second selection step is commenced.

62. A method as claimed in claim 61, comprising a receiving step of receiving image data from said at least one image input/output apparatus, and wherein in said receiving step, reception of image data from said at least one image input/output apparatus is continued until selection is carried out through said second selection step.

63. A method as claimed in claim 62, wherein the reception of the image data is carried out page by page.

64. A method as claimed in claim 60, further comprising a warning step of displaying a warning if image output using one of the sheet cassettes selected through said first selection means is impossible.

65. A method as claimed in claim 60, wherein the image size of the received image data is determined based on image accompanying information sent together with the received image data.

66. A method as claimed in claim 60, comprising an input step of inputting original images.

67. An image input/output system in which a plurality of image input/output apparatuses each having

input means for inputting image data of original images, and output means for outputting image data are connected together via a communication medium, comprising:

5 transmission means for transmitting the image data input by said input means and image accompanying information relating to the input image data to at least one of said image input/output apparatuses;

 receiving means for receiving image data and image

10 accompanying information relating thereto from at least one of said image input/output apparatuses; and

 output control means for carrying out control so as to output images using said output means based on the image data and the image accompanying information

15 received by said receiving means

68. An image input/output system in which at least one printing apparatus and at least one image input/output apparatus are connected together via a communication medium, comprising:

20 input means for inputting image data of original images; and

 transmission means for transmitting image data to said at least one printing apparatus;

 wherein said transmission means transmits the

25 image data of the original images and image accompanying information relating to the image data of the original images to said at least one printing

apparatus.

69. An image input/output system in which at least one image reading apparatus that each input image data of original images and at least one image
5 input/output apparatus are connected together via a communication medium, comprising:

receiving means for receiving the image data of the original images from said at least one image reading apparatus;

10 printing means for printing image data using said at least one image output apparatus; and printing control means for controlling printing of the image data received by said receiving means, using said printing means;

15 wherein said receiving means receives image accompanying information relating to the image data of the original images, and said printing control means controls the printing using said printing means based on the image data and the image accompanying
20 information received by said receiving means.

70. An image input/output system in which at least one image output apparatus and at least one image input/output apparatus are connected together via a communication medium, comprising:

25 converting means for converting image data input by said at least one image input apparatus into a TIFF file; and

transmission means for transmitting the TIFF files converted by said converting means to said at least one image output apparatus;

wherein said transmission means attaches to a free
5 area in a header of the TIFF files, control information for said at least one image output apparatus to carry out image output of said image data, and transmits the control information.

71. An image input/output system in which a
10 plurality of image input/output apparatuses having output means for outputting image data are connected together via a communication medium, wherein:

at least one of said image input/output apparatuses comprises:

15 management means for managing cassette information on sheet cassettes provided in said output means; and first selection means for selecting one of the sheet cassettes for outputting image data by said output means based on the cassette information managed
20 by said management means; and

wherein, when image data received from said at least one other image input/output apparatus is to be outputted by said output means, said first selection means selects one of said sheet cassettes based on the
25 cassette information.

72. A computer-readable storage medium storing a program code that implements a method of controlling an

image input/output apparatus having an input section
that inputs image data of original images, and an
output section that outputs image data, and being
connected to at least one other image input/output
5 apparatus via a communication medium, said program code
comprising:

a transmission code for transmitting image data
input by said input section and image accompanying
information relating to said input image data to said
10 at least one other image input/output apparatus;

a receiving code for receiving image data and
image accompanying information relating thereto from
said at least one other image input/output apparatus;
and

15 an output control code for controlling so as to
output images using said output section based on the
image data and the image accompanying information
received through said receiving code.

73. A computer-readable storage medium storing a
20 program code that implements a method of controlling an
image input/output apparatus having an input section
that inputs original images and being connected to at
least one printing apparatus via a communication medium,
said program code comprising:

25 an input code for inputting image data of original
images using said input section; and
a transmission code for transmitting image data to

said at least one printing apparatus;
wherein said transmission code implements
transmission of the image data of the original images
and image accompanying information relating to said
5 image data of the original images to said at least one
printing apparatus.

74. A computer-readable storage medium storing a
program code that implements a method of controlling an
image input/output apparatus having a printing section
10 that prints image data and being connected via a
communication medium to at least one image reading
apparatus that inputs image data of original images,
said program code comprising:
a receiving code for receiving the image data of
15 the original images from said at least one image
reading apparatus;
a printing code for printing image data using said
printing section; and
a printing control code for controlling printing
20 of image data received through said receiving code,
using said printing code;
wherein said receiving code implements reception
of image accompanying information relating to the image
data of the original images, and said printing control
25 code implements control of the printing using said
printing section based on the image data and the image
accompanying information received through said

receiving code.

75. A computer-readable storage medium storing a program code that implements a method of controlling an image input/output apparatus connected to at least one 5 image output apparatus via a communication medium, said program code comprising:

a converting code for converting input image data into a TIFF file; and

10 transmission code for transmitting the TIFF file converted through said converting code to said at least one image output apparatus;

wherein said transmission code implements attaching control information for said at least one image output apparatus to carry out image output of 15 said image data to a free area in a header of the TIFF file, and transmission of the control information.

76. A computer-readable storage medium storing a program code that, in an image input/output apparatus having a scanner section, a printer section, a memory 20 section, an image processing section, and an operating section and being connected to at least one other image input/output apparatus via a network, implements a method of outputting, using said at least one other image input/output apparatus, image data input by said 25 scanner section, said program code comprising:

a job controlling code for controlling a job generated based on copy setting information input by

said operating section;

 a device controlling code for carrying out device control based on the job such that said scanner section inputs image data, said image processing section

5 converts the input image data into a TIFF file, and said memory section stores the TIFF file; and

 a network controlling code for transmitting the TIFF file stored in said memory section to said at least one other image input/output apparatus;

10 wherein, when conversion of the input image data into the TIFF file is carried out, said device controlling code implements attaching device controlling information and said copy setting information to a header of the TIFF file, and said

15 network controlling code implements transmission of the TIFF file with said device controlling information and said copy setting information attached to the header thereof to said at least one other image input/output apparatus.

20 77. A computer-readable storage medium storing a program code that, in an image input/output apparatus having a scanner section, a printer section, a memory section, an image processing section, and an operating section and being connected to at least one other image
25 input/output apparatus via a network, implements a method of outputting, using said printer section, image data input by said at least one other image

input/output apparatus, said program code comprising:

- a network controlling code for receiving image data in TIFF file format from said at least one other image input/output apparatus, storing the received

5 image data in said memory section, and issuing a job based on the received image data;

- a job controlling code for controlling the job issued through said network controlling code; and
- a device controlling code for carrying out device

10 control based on the job such that said image processing section expands the stored image data in TIFF file format into image data before conversion into the TIFF file format, and said printer section outputs the expanded image data;

15 wherein device controlling information and copy setting information from said at least one other image input/output apparatus is attached to a header of the TIFF file, and said device controlling code implements control such that the image data is outputted based on

20 the device controlling information and the copy setting information from said at least one other image input/output apparatus.

78. A computer-readable storage medium storing a program code that implements a method of controlling an

25 image input/output apparatus having an output section that outputs image data and being connected to at least one other image input/output apparatus via a

communication medium, said program code comprising:
a management code for managing cassette
information on sheet cassettes provided in said output
section; and

5 a first selection code for selecting one of the
sheet cassettes for outputting image data using said
output section based on the cassette information
managed through said management code;
wherein, when image data received from said at
10 least one other image input/output apparatus is to be
outputted by said output section, said first selection
code implements selection of one of the sheet cassettes
based on the cassette information.

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